

Contributors to this Issue

A. BUSALA, Dr. in E.E., 1945, University of Rome (Italy); M.S., 1951, Catholic University of America; research associate, Catholic University of America, 1948-53; Bell Telephone Laboratories, 1953 —. He has been engaged in fundamental development of telephone circuits, with special emphasis on the design of transistorized telephone sets for electronic switching systems. Member Sigma Xi.

HAROLD E. CURTIS, B.S. and M.S., 1929, Massachusetts Institute of Technology; American Telephone & Telegraph Company, 1929-34; Bell Telephone Laboratories, 1934 —. He was concerned with early transmission studies of the coaxial cable and waveguide, and has specialized in transmission engineering studies of multichannel carrier telephony and microwave radio relay systems.

U. F. GIANOLA, B.Sc., 1948, and Ph.D., 1951, University of Birmingham, (England); Royal Aircraft Establishment, 1951; postdoctoral fellow, University of British Columbia, 1951-53; Bell Telephone Laboratories, 1953 —. As a member of the transmission research department he took part in experimental and theoretical studies of transmission line structures, analyses of a new magnetostrictive transducer, solar battery application to communications channels and fundamental studies of the effects of ion bombardment. At present he is engaged in studies of solid state memory and logic devices. Member American Physical Society, Research Society of America; senior member I.R.E.

E. N. GILBERT, B.S., 1943, Queens College; Ph.D., 1948, Massachusetts Institute of Technology; M.I.T. Radiation Laboratory, 1944-46; Bell Telephone Laboratories, 1948 —. Mr. Gilbert has been engaged in studies of information theory and switching theory. Recipient M.I.T. Applied Mathematics Fellowship, 1946-48. Member American Mathematical Society.

H. J. LANDAU, A.B., 1953, and Ph.D., 1957, Harvard University; teaching fellow, Harvard, 1956-57; Bell Telephone Laboratories, 1957 —.

He was engaged in mathematical research in function theory and linear spaces. Mr. Landau is now on leave of absence while studying at the Institute for Advanced Study. Member American Mathematical Society, Phi Beta Kappa.

H. LAWRENCE, B.S., 1949, Randolph-Macon College; M.S., 1950, Columbia University Teachers College; Tung-Sol Electric, 1954-56; Bell Telephone Laboratories, 1956 —. He has been engaged in development of semiconductor devices and components.

L. A. MACCOLL, A.B., 1919, University of Colorado; A.M., 1925, and Ph.D., 1934, Columbia University; Western Electric Co., 1919-25; Bell Telephone Laboratories, 1925 —. He has been engaged in general mathematical research and consultation. He is the author of the book, *Fundamental Theory of Servomechanisms*, and has been a visiting lecturer at Princeton University and adjunct professor of mathematics at New York University. Fellow New York Academy of Sciences; member American Mathematical Society, American Physical Society, Edinburgh Mathematical Society, Mathematical Association of America, Phi Beta Kappa, Sigma Xi.

H. O. POLLAK, B.A., 1947, Yale University; M.A., 1948, and Ph.D., 1951, Harvard University; Bell Telephone Laboratories, 1951 —. He has been engaged in mathematical analysis of gunnery and missile systems and mathematical research in communications. Member American Mathematical Society, Mathematical Association of America, School Mathematics Study Group.

R. V. SPERRY, B.S.E.E., 1949, and M.S.E.E., 1951, West Virginia University; Bell Telephone Laboratories, 1952 —. He has been concerned with filters, equalizers and other networks for television transmission over coaxial cable, microwave and other systems. At present he supervises a group working on development of repeaters for waveguide transmission systems. Member A.I.E.E., Eta Kappa Nu, Pi Tau Sigma, Tau Beta Pi.

D. SURENIAN, B.S.E.E., 1950, Syracuse University; M.S.E.E., 1952, Clarkson College of Technology; Bell Telephone Laboratories, 1952-57. His work at Bell Laboratories was concerned with the development of networks and filters for communications systems.

RAYMOND M. WARNER, JR., B.S., 1947, Carnegie Institute of Technology; M.S., 1950, and Ph.D., 1952, Case Institute of Technology; Bell Telephone Laboratories, 1952-59. Mr. Warner's work at Bell Laboratories was in semiconductor device development. Member American Association for the Advancement of Science, Phi Kappa Phi, Sigma Xi, Tau Beta Pi.